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NOTICE OF ALLOWANCE
AND ISSUE FEE DUE Note attached communication from the Examiner This notice is issued in view of applicant's communication filed _____

| SERIES CODE/SERIAL NO. | FILING DATE | TOTAL CLAIMS | EXAMINER AND GROUP ART UNIT | DATE MAILED |
|--------------------------|-------------|--------------|-----------------------------|---------------|
| 07/103,192 | 10/01/87 | 035 | KRIESS, K | 2307 10/21/91 |
| First Named Applicant | BERGMAN, | LARRY A. | | |

TITLE OF
INVENTION OPTICALLY INTRACONNECTED COMPUTER EMPLOYING DYNAMICALLY RECONFIGURABLE
HOLOGRAPHIC OPTICAL ELEMENT

| | ATTY'S DOCKET NO. | CLASS-SUBCLASS | BATCH NO. | APPLN. TYPE | SMALL ENTITY | FEES DUE | DATE DUE |
|---|-------------------|----------------|-----------|-------------|--------------|----------|----------|
| 2 | JPL87-008 | 395-375.000 | U01 | UTILITY | YES | \$525.00 | 01/21/92 |

**THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT.
PROSECUTION ON THE MERITS IS CLOSED.**

**THE ISSUE FEE MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS
APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED.**

HOW TO RESPOND TO THIS NOTICE:

I. Review the SMALL ENTITY Status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the Status is changed, pay twice the amount of the FEE DUE shown above and notify the Patent and Trademark Office of the change in status, or
- B. If the Status is the same, pay the FEE DUE shown above.

If the SMALL ENTITY is shown as NO:

- A. Pay FEE DUE shown above, or
- B. File verified statement of Small Entity Status before, or with, payment of 1/2 the FEE DUE shown above.

II. Part B of this notice should be completed and returned to the Patent and Trademark Office (PTO) with your ISSUE FEE. Even if the ISSUE FEE has already been paid by a charge to deposit account, Part B should be completed and returned. If you are charging the ISSUE FEE to your deposit account, Part C of this notice should also be completed and returned.

III. All communications regarding this application must give series code (or filing date), serial number and batch number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees.



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[Signature]

| SERIAL NUMBER | FILING DATE | FIRST NAMED APPLICANT | ATTORNEY DOCKET NO. |
|---------------|-------------|-----------------------|---------------------|
|---------------|-------------|-----------------------|---------------------|

07/103, 192 10/01/87 BERGMAN

L JPL87-008

EXAMINER

KRIESS, K

ART UNIT PAPER NUMBER

2307

[Signature] 15

DATE MAILED: 10/21/91

NOTICE OF ALLOWABILITY

PART I.

1. This communication is responsive to *Response filed August 8, 1991*
2. All the claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice Of Allowance And Issue Fee Due or other appropriate communication will be sent in due course.
3. The allowed claims are *1-4, 6-12, 14, 15, 19-22 and 24-41*.
4. The drawings filed on _____ are acceptable.
5. Acknowledgment is made of the claim for priority under 35 U.S.C. 119. The certified copy has [] been received. [] not been received. [] been filed in parent application Serial No. _____, filed on _____.
6. Note the attached Examiner's Amendment.
7. Note the attached Examiner Interview Summary Record, PTOL-413.
8. Note the attached Examiner's Statement of Reasons for Allowance.
9. Note the attached NOTICE OF REFERENCES CITED, PTO-892.
10. Note the attached INFORMATION DISCLOSURE CITATION, PTO-1449.

PART II.

A SHORTENED STATUTORY PERIOD FOR RESPONSE to comply with the requirements noted below is set to EXPIRE THREE MONTHS FROM THE "DATE MAILED" indicated on this form. Failure to timely comply will result in the ABANDONMENT of this application. Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

1. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL APPLICATION, PTO-152, which discloses that the oath or declaration is deficient. A SUBSTITUTE OATH OR DECLARATION IS REQUIRED.
2. APPLICANT MUST MAKE THE DRAWING CHANGES INDICATED BELOW IN THE MANNER SET FORTH ON THE REVERSE SIDE OF THIS PAPER.
- a. Drawing informalities are indicated on the NOTICE RE PATENT DRAWINGS, PTO-948, attached hereto or to Paper No. _____. CORRECTION IS REQUIRED.
- b. The proposed drawing correction filed on _____ has been approved by the examiner. CORRECTION IS REQUIRED.
- c. Approved drawing corrections are described by the examiner in the attached EXAMINER'S AMENDMENT. CORRECTION IS REQUIRED.
- d. Formal drawings are now REQUIRED.

Any response to this letter should include in the upper right hand corner, the following information from the NOTICE OF ALLOWANCE AND ISSUE FEE DUE: ISSUE BATCH NUMBER, DATE OF THE NOTICE OF ALLOWANCE, AND SERIAL NUMBER.

Attachments:

- Examiner's Amendment
 Examiner Interview Summary Record, PTOL- 413
 Reasons for Allowance
 Notice of References Cited, PTO-892
 Information Disclosure Citation, PTO-1449
- Notice of Informal Application, PTO-152
 Notice re Patent Drawings, PTO-948
 Listing of Bonded Draftsmen
 Other

[Signature]
KEVIN A. KRIES
EXAMINER
ART UNIT 23

Art Unit 237

1. An Examiner's Amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 C.F.R. § 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the Issue Fee.

2. Authorization for this Examiner's Amendment was given in a telephone interview with Robert M. Wallace on October 16, 1991.

In claim 6, line 1, "5" has been changed to --39--.

In claim 10, line 1, "5" has been changed to --39--.

In claim 14, line 1, "13" has been changed to --40--.

In claim 15, line 1, "13" has been changed to --40--.

In claim 24, line 1, "23" has been changed to --41--.

In claim 28, line "23" has been changed to --41--.

In the drawings, fig. 8 has been labeled separately as shown by the attached red-inked photocopy. Correction is required.

Claims 16-18 have been canceled.

KEVIN A. KRIESS
EXAMINER
ART UNIT 237

Art Unit 237

The following is an Examiner's Statement of Reasons for Allowance: During a telephone interview with Applicant's attorney, Robert M. Wallace on October 16, 1991, the examiner stated that Applicant's remarks filed August 8, 1991 about classifying instructions in accordance with function were persuasive.

Any comments considered necessary by applicant must be submitted no later than the payment of the Issue Fee and, to avoid processing delays, should preferably accompany the Issue Fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

This application is in condition for allowance except for the presence of claims 16-18 to an invention nonelected without traverse. Accordingly, claims 16-18 have been canceled.

Claims 6-10, 14-15, 24-28, and 29-36 are non-elected claims drawn to a hybrid analog/digital computer. This group of claims incorporates all the limitations of allowed claims 1-5. Since claims 1-5 are allowable, claims 6-10, 14-15, 24-28 and 29-36 are rejoined and are also allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin A. Kriess whose telephone number is (703) 308-0775.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0754.

KAK/jrm
October 17, 1991

KEVIN A. KRIESS
EXAMINER
ART UNIT 237